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THYRATRON

METAL MERCURY-VAPOR TETRODE

Electrical:

DATA

| | Continuous Service | | Welder-Control Service | | |
|--|-----------------------|------|---------------------------|------|-----------|
| Heater, for Unipotential Cathode: | | | | | |
| Voltage* | 5.G | 5.G | 5.0 | 5.5 | volts |
| Current | 10.0 | 10.G | 10.0 | 11.0 | amp |
| Direct Interelectrode Capacitance (Approx.): | | | | | |
| Grid No.1 to Anode | 0.07 | 0.07 | | 0.07 | μ mf |
| Peak Voltage Drop . . | 16 | 16 | 16 | 16 | volts |
| Approx. Control Characteristic: | | | | | |
| Anode Voltage . . . | 100 | 2000 | 100 | 2000 | volts |
| Grid-No.1 Voltage . | +1.0 | -14 | +1.0 | -14 | volts |
| Grid-No.2 Voltage . | 0 | 0 | 0 | 0 | volts |
| Ionization Time (Approx.) | 10 | 10 | 10 | 10 | μ sec |
| Deionization Time (Approx.) | 1000 | 1000 | 1000 | 1000 | μ sec |

Mechanical:

| | |
|-------------------------------|-------------------------|
| Mounting Position | Vertical, Radiator Down |
| Overall Rigid Length. | 10-11/16" \pm 1/16" |
| Greatest Radius | 2-5/8" |
| Terminals | See Outline Drawing |

Maximum Ratings, Absolute Values:

| | Continuous Service | Welder- Control Service | |
|--|-----------------------|-------------------------------|--------------|
| PEAK FORWARD ANODE VOLT. . | 2000 max. | 750 max. | volts |
| PEAK INVERSE ANODE VOLT. . | 2000 max. | 750 max. | volts |
| GRID-No.1 (CONT. GRID) VOLT.: | | | |
| Before Conduction | -1000 max. | -1000 max. | volts |
| During Conduction | -10 max. | -10 max. | volts |
| GRID-No.2 (SHL'D GRID) VOLT.: | | | |
| Before Conduction | -300 max. | -300 max. | volts |
| During Conduction | -5.0 max. | -5.0 max. | volts |
| INSTANTANEOUS ANODE CUR.: | | | |
| Below 25 Cycles | 13.0 max. | 13.0 max. | amp |
| 25 Cycles and Higher. . . | 40 max. | 77 max. | amp |
| AVERAGE ANODE CURRENT** . | 6.4 max. | 2.5 max. | amp |
| SURGE ANODE CURRENT for | | | |
| 0.1 sec. max. | 400 max. | 400 max. | amp |
| INSTANTANEOUS GRID-No.1 CUR. | 1.0 max. | 1.0 max. | amp |
| AVERAGE GRID-No.1 Cur.** . | 0.25 max. | 0.25 max. | amp |
| INSTANTANEOUS GRID-No.2 CUR. | 2.0 max. | 2.0 max. | amp |
| AVERAGE GRID-No.2 Cur.** . | 0.5 max. | 0.5 max. | amp |
| COND.-MERCURY TEMP. RANGE ^A | 40 - 80 | 30 - 95 | $^{\circ}$ C |

* Must be applied at least 5 minutes before anode voltage is applied.

** Averaged over any 15-second interval.

^A Recommended condensed-mercury temperature 40 $^{\circ}$ C.

MAY 1, 1946

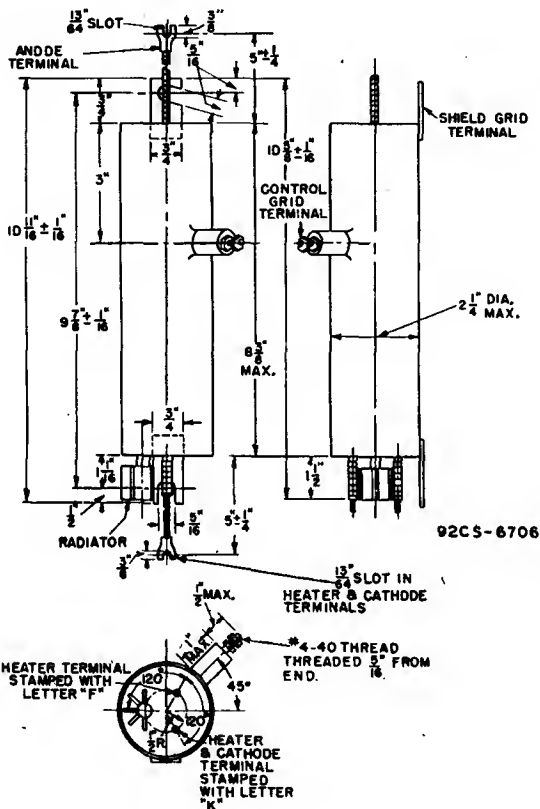
TUBE DIVISION

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY



THYRATRON

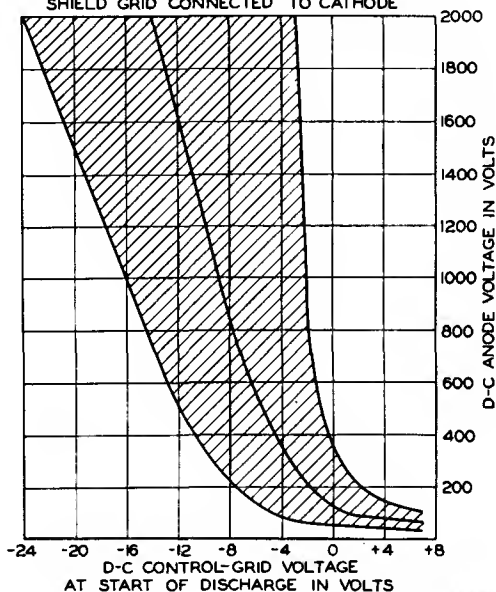




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TYPICAL CONTROL CHARACTERISTIC
SHADED AREA SHOWS RANGE OF CHARACTERISTIC
CONDENSED-MERCURY TEMP. 40°C
SHIELD GRID CONNECTED TO CATHODE



92CS-6698